Locate the 1/4" rod clamp and the 1/2" tube clamp. Referring to Figure 3, place the 1/4" rod clamp on the gamma arm assembly and the 1/2" tube clamp on the 1/2" driven element (DE) in the approximate location shown in Figure 4.

Locate the 2-1/8" x 3/8" shorting strap, and using 8-32 x 1/2" slotted screws, No. 8 external tooth lockwashers and 8-32 hex nuts, assemble the shorting strap to the two clamps. Place the shorting strap in the position shown in Figure 4.

NOTE: This adjustment is critical for proper performance. After installation, if you so desire, you may peak the gamma matching system for best V.S.W.R. at your site location. However, the above pretested factory measurements generally will give the lowest V.S.W.R. and best match to 50 ohm cable.

FINAL ASSEMBLY — Loosely assemble the "U-Bolt" and saddle assembly, referring to Figure 5.

NOTE: There are two sets of boom holes allowing either vertical or horizontal mounting. Mount the supporting mast to the anntenna and tighten the hardware.

Install the 1/2" end caps on the end of each element and two boom end caps.

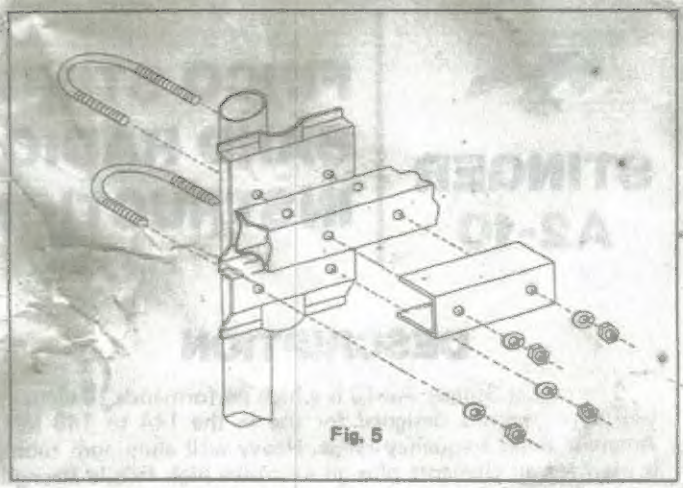


Fig. 5

This completes the assembly of your FINCO STINGER A2-10.

INSTALLATION

Before installing the antenna on the supporting structure, attach the coaxial feed line to gamma arm. It is recommended that you weatherproof this connection with Neoprene or similar rubber compound substance. This will prevent moisture from deteriorating your antennas performance.

Install your antenna keeping in mind the warning on the front page.

MODEL STINGER A2-10 PARTS LIST

QTY.	DESCRIPTION	PART NUMBER
1	58" x 1-1/4" Square Boom (Front)	67228
1	62" x 1-1/4" Square Boom (Rear)	67229
1	8" x 1-1/8" Round Splice Joint	69620
4	1/2" O.D. x 34" Elements with Boom Bracket	68727
3	1/2" O.D. x 34-1/2" Elements with Boom Bracket	68723
1	1/2" O.D. x 35" Element with Boom Bracket	68724
1	1/2" O.D. x 39" Element with Boom Bracket	68725
1	1/2" O.D. x 41" Element with Boom Bracket	68726
1	Gamma Arm Assembly	10104
1	Gamma Arm Mounting Bracket	23204
1	2-1/8" Long Gamma Arm Shorting Strap	41201
1	Boom to Mast Mounting Plate	23001

QTY.	DESCRIPTION	PART NUMBER
1	Boom Back Up Plate	23002
1	2-3/4" Long U-Bolt	13400
1	4" Long U-Bolt	13401
1	1/2" Tube Clamp	21971
1	1/4" Rod Clamp	21980
2	8-32 x 1/2" Slotted Head Screws	10701
24	1/4-20 x 1-3/4" Hex Head Bolts	10001
4	5/16" Lockwashers (U-Bolt)	20102
4	5/16-18 Hex Nuts (U-Bolts)	30102
2	1-1/4" Square Boom End Caps	23561
1	5/8" I.D. Internal Tooth Lockwashers	20085
1	5/8-24 Hex Nut	13402
2	#8 External Tooth Lockwashers	20100
2	8-32 Hex Nuts	30100
24	1/4" Lockwashers	20101
24	1/4-20 Hex Nuts	30101
20	1/2" Dia. Element End Caps	24603

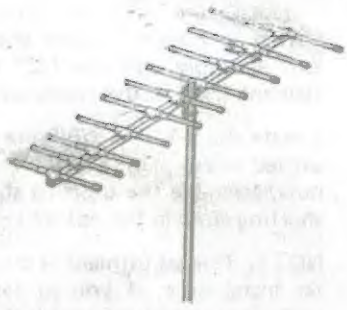
AMATEUR CB TV ANTENNAS FINCO® ACCESSORIES MATV/CATV

THE FINNEY COMPANY
34 West Interstate Street, Bedford, Ohio 44146
(216) 232-6161

FORM NO. 17-5912

STINGER A2-10

FINCO STINGER AMATEUR BAND RADIO ANTENNA INSTRUCTION MANUAL



DESCRIPTION

The model Stinger A2-10 is a high performance 10-element yagi type antenna designed for use in the 144 to 148 MHz Amateur Band frequency range. Heavy wall aluminum tubing is used for all elements plus an exclusive high tensile strength square boom for maximum strength and ease of assembly. The A2-10 can be mounted for vertical polarization, thereby making the antenna useful in repeater accessing or mounted for horizontal polarization for station-to-station VHF DX work. Additional bays of the A2-10 can be easily stacked for even greater gain and front-to-back ratio. Power rating--2000 watts P.E.P.

SPECIFICATIONS

ELECTRICAL–

Forward Gain	13.8 dB
Front-to-Back Ratio	25 dB
V.S.W.R. (at resonance)	1.1:1
Half Power Beam Width	40°
Bandwidth	144 to 148 MHz
Impedance	50 ohms
Matching System	Adjustable Gamma

MECHANICAL–

Boom Length	10 ft.
Longest Element	42 inches
Turning Radius	71 inches
Maximum Surface Area	2.36 sq. ft.
Wind Load at 80 mph	26.2 lbs.
Weight	9.8 lbs.

WARNING!

The following steps will include assembly and installation Survey your antenna site NOW to preclude your antenna or support from coming in contact with overhead powerlines.

FAILURE TO EXCERCISE THIS CAUTION CAN CAUSE ELECTROCUTION.

ASSEMBLY

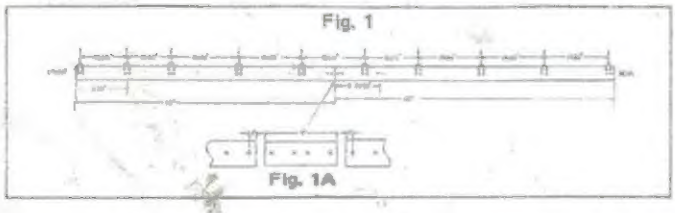


Fig. 1A

BOOM ASSEMBLY–Referring to Figure 1, select the 62" and 58" pieces of square boom stock. Locate the 8" x 1 1/8" round boom splice.

NOTE: That on one end of the two pieces of boom material, that from the end of the boom to the center of the first hole is 1" (Fig. 1A).

These ends will be the splice joint ends. Assemble the two pieces of boom using the 8" x 1 1/8" round splice joint being sure to align the holes. Fasten the splice using 1/4-20 x 1 3/4" hex head bolts, 1/4" lockwashers, and 1/4-20 hex nuts. Securely tighten the hardware.

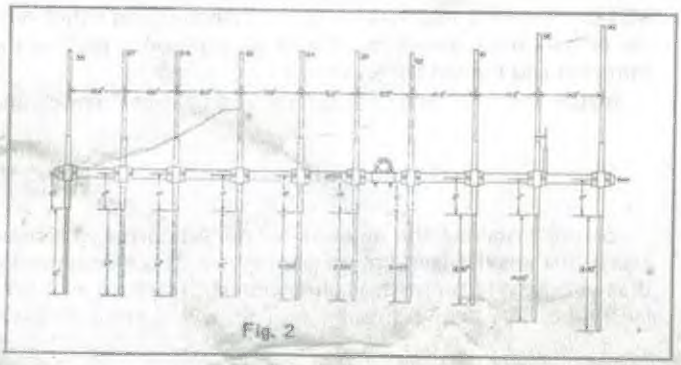


Fig. 2

ELEMENT TO BOOM ASSEMBLY–Referring Figure 2 for element placement and position, assemble the reflector (R) and Directors (D1) (D2) (D3) (D4) (D5) (D6) (D7) (D8) as shown using two 1/4-20 x 1 3/4" hex head bolts, 1/4" lockwashers and 1/4-20 hex nuts for each element. As shown in Figure 3, mount the driven element (DE) and gamma arm bracket to the Boom using the above hardware.

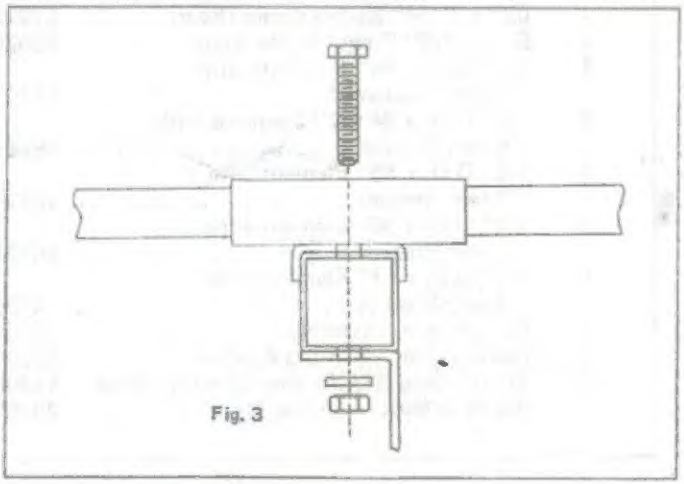


Fig. 3

GAMMA MATCH ASSEMBLY–Locate the gamma arm assembly. Securely fasten the threaded connector end, using the 5/8-24 hex nut and 5/8" I.D. internal tooth lockwashers to the gamma arm bracket.

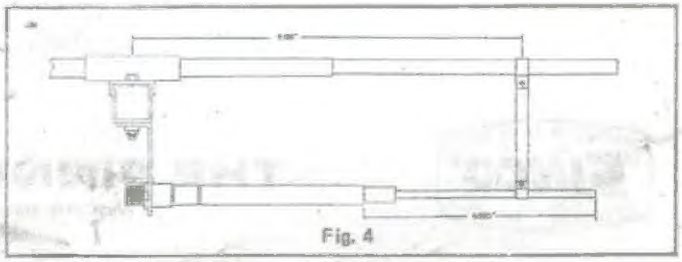


Fig. 4